

Reducing Logistics Footprint through Systems Engineering

22 October 2002

*Will work
for food!*





Our Problem

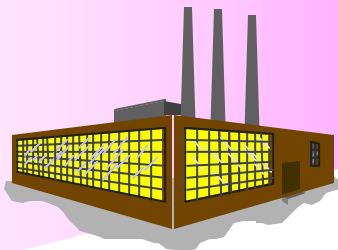
BUY WEAPON SYSTEMS

\$100B+/Year

- Design
- Develop
- Build

CATALOG

- 5M NSNs

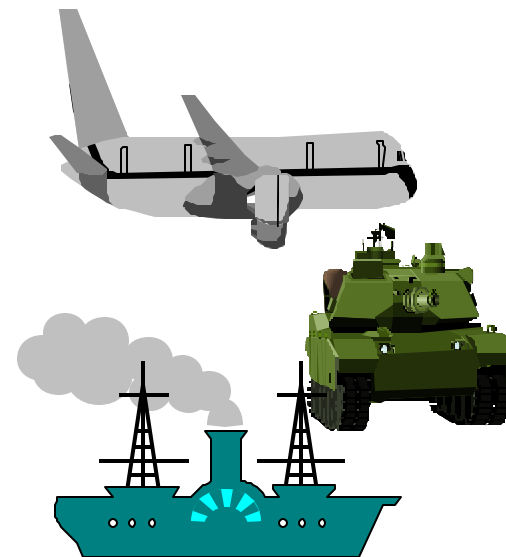


MANAGE PARTS

\$67B/Year

- Finance
- Buy
- Manage
- Move

FIGHT WITH WEAPON SYSTEMS



Multiple Handoffs

We must transition to managing outputs (versus inputs).

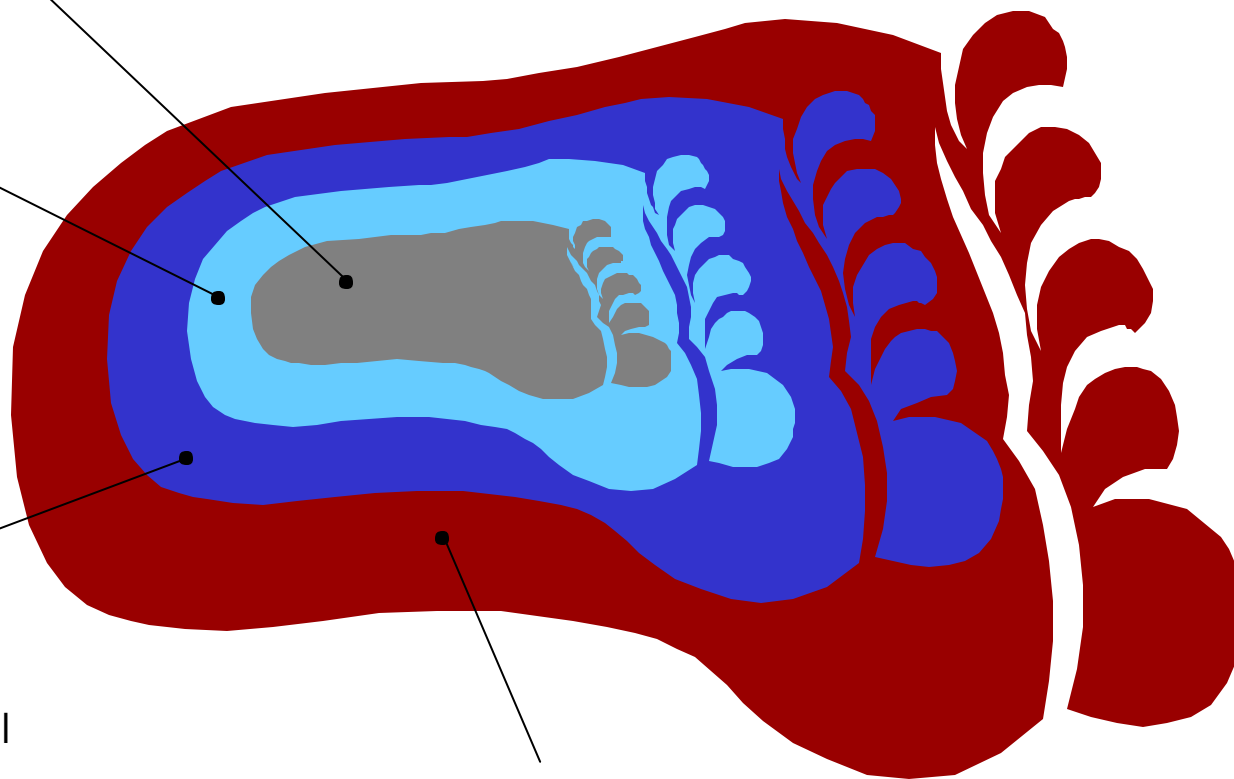


The “Footprint “Problem

The Original Requirement -
12 Mission Ready Aircraft

To Maintain an
Operational
Availability of 75%
Requires 16 Aircraft
And the Equipment/
Material for 4 More
Aircraft

A Reduction in
Predicted Reliability
Requires Additional
Maintenance Personnel
To Maintain Same Level
of Readiness



Increased Stocks Require Additional Force Protection
Personnel and Fuel, Water and Subsistence to Support
the Entire Force

IT'S ENGINEERING!!



Total Life Cycle Systems Management Desired End State

Program Managers responsible for the overall management of the weapon system life cycle to include:

- **Timely acquisition of weapon systems meeting warfighter performance requirements**
- **Integration of sustainability and maintainability during acquisition process**
- **Weapon system sustainment to meet or exceed warfighter performance requirements at best value to DoD (and appropriate visibility)**



Emphasizing Support Requirements



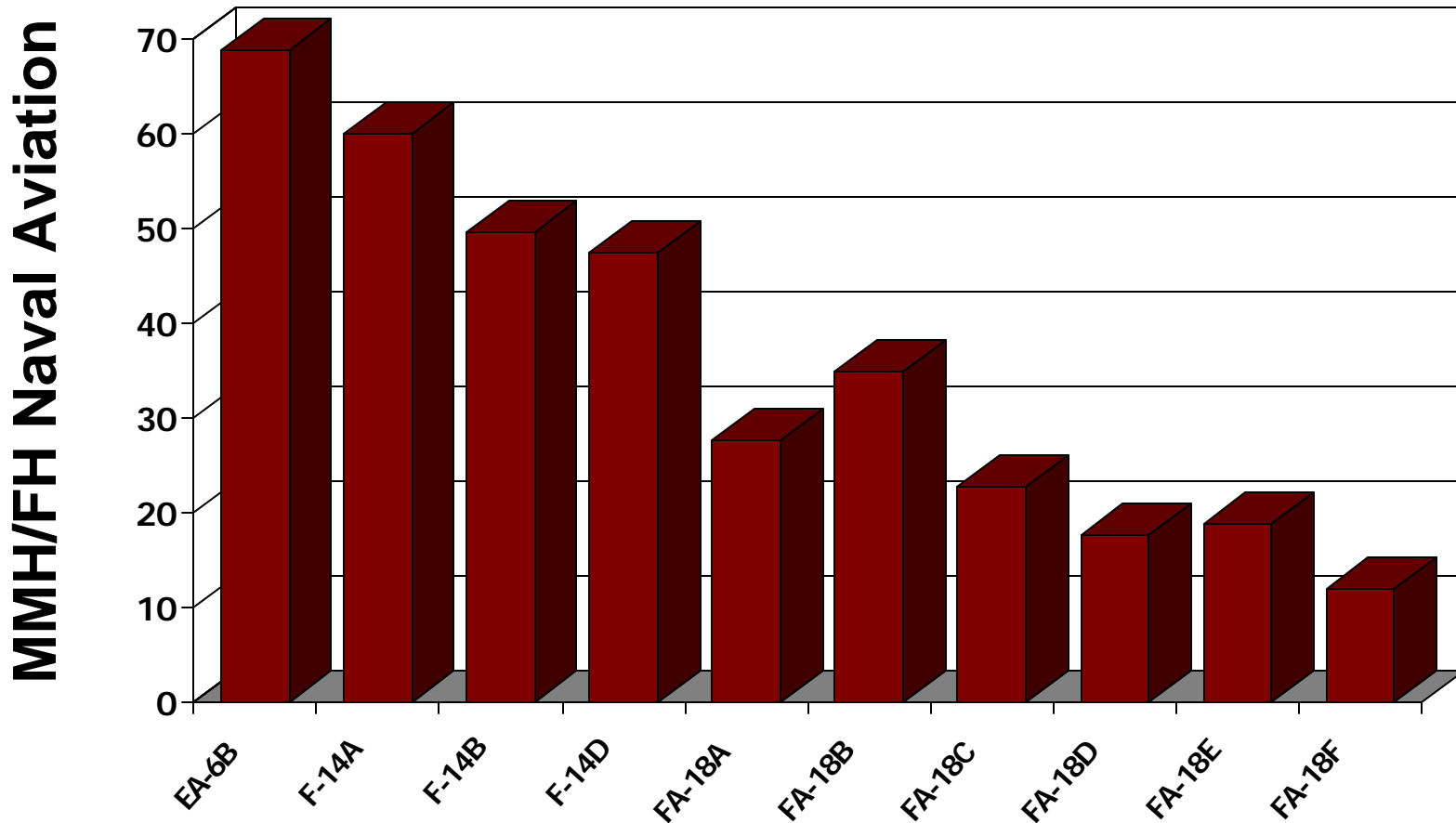
- Updated CJCSI 3170 and JROC Administrative Guide to include increased emphasis on supportability/sustainment parameters in Operational Requirements Documents (ORDs)

- Provided input to J-8 – very supportive
- In formal staffing
- Update scheduled for the fall





“Engineering” Success

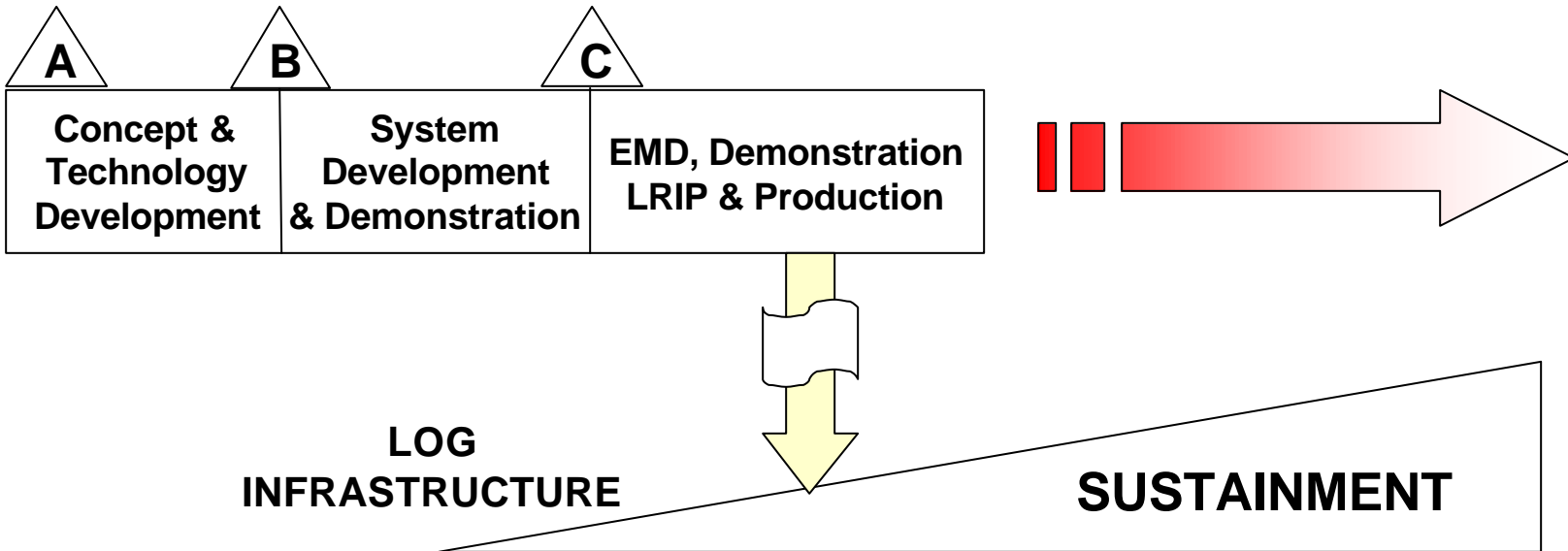




Program Management Focus

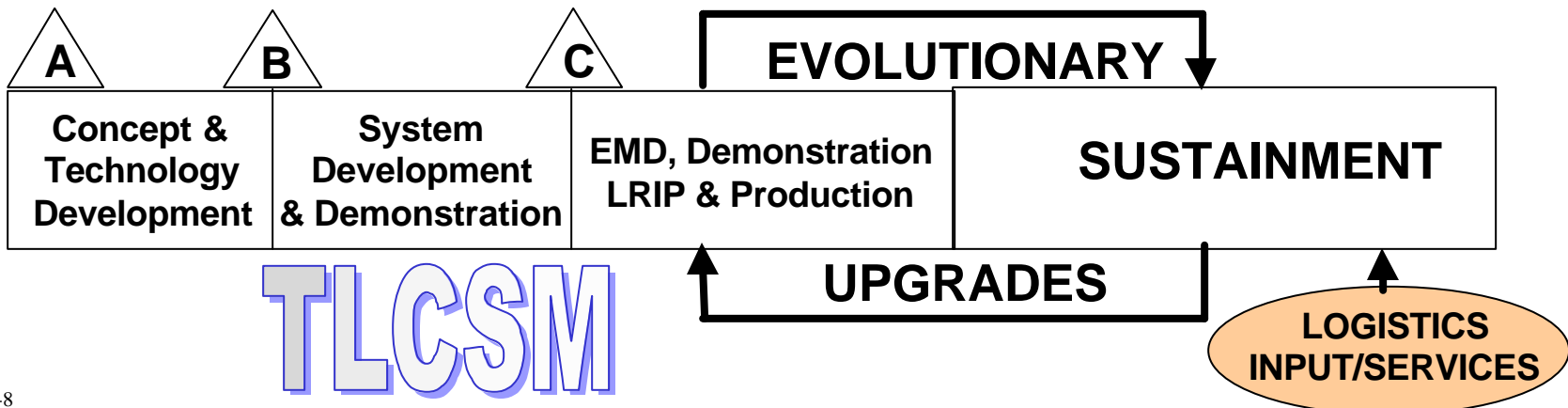
BEFORE

PM ROLE DIMINISHES



TODAY and into the FUTURE

PM ROLE CONTINUES





Migration to the End State

FIELDIED



F-18 C/D



DDG



BRADLEY

- Transaction-based
- Fractured Supply Chains
- Random Failures
- Batch Process orders
- Limited Accountability

CURRENT



F-18 E/F



LPD-17



Stryker

- Performance-Based
- Integrated Chains
- Fleet Management
- Integrated Systems
- PM Accountability

FUTURE



JSF



DDX



FCS

- Capability-Based
- Industrial Integration
- Autonomic Logistics
- End-to-End Solutions
- Single-Line Accounting

Response

Time:

16 days

2000

5-8 days

2010

1-5 days



Weapon System Support FY02 Accomplishments

- Promulgated life cycle management in DoD 5000
 - Established 60 performance-based logistics programs
- Built supportive depot partnering environment
 - DoD, Congress, Industry
 - Added legislative enablers
 - Issued partnering policy
- Established 47 public/private depot partnerships
- Issued guidance to expand diagnostics/prognostics capabilities and serialized item management

Defined and implemented a structure for success!



We Need Your Help



- **Achieving Ultra-Reliability**
- **Engineering in “Zero-Logistics”**
- **Fixing Built-In Test**
- **Focusing on Sustaining Engineering**